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## NOTICE OF ALLOWANCE AND FEE(S) DUE

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7590

09/19/2008

03/13/2000

Kathy Manke Avago Technologies Limited 4380 Ziegler Road Fort Collins, CO 80525 EXAMINER

CHIEM, DINH D

ART UNIT PAPER NUMBER

2883 DATE MAILED: 09/19/2008

APP:	LICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	10/810.297	03/26/2004	Luigi Tallone	10030234-03	9276

TITLE OF INVENTION: MOUNTING ARRANGEMENT FOR OPTICAL COMPONENTS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	12/19/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

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If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, mus have its own certificate of mailing or transmission.			
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Kathy Manke			I he	ereby certify that this	Fee(s) Transmittal is being	g deposited with the United st class mail in an envelope	
Avago Technolo			add	ressed to the Mail	Stop ISSUE FEE address	above, or being facsimile late indicated below.	
4380 Ziegler Ro Fort Collins, CC			tran	smitted to the USPT	O (5/1) 2/3-2885, on the c	late indicated below.	
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						(Signature)	
						(Date)	
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/810,297	03/26/2004	•	Luigi Tallone	•	10030234-03	9276	
TTLE OF INVENTION	: MOUNTING ARRAN	GEMENT FOR OPTICA	L COMPONENTS				
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"Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.				
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PLEASE NOTE: Unl	less an assignee is ident	ified below, no assignee	data will appear on the p	atent. If an assigned	e is identified below, the d	locument has been filed for	
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lease check the appropr	iate assignee category or	categories (will not be pr	rinted on the patent):	Individual 🖵 Cor	poration or other private gr	oup entity Government	
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	No small entity discount p	permitted)	Payment by credit card. Form PTO-2038 is attached.				
Advance Order - # of Copies			The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).				
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NOTE: The Issue Fee an	d Publication Fee (if requestressed of the United Sta	uired) will not be accepted tes Patent and Trademark	d from anyone other than t	the applicant; a regist	tered attorney or agent; or the	he assignee or other party in	
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submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments of the amount of this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/810,297	03/26/2004	Luigi Tallone	10030234-03	9276
57299 75	590 09/19/2008		EXAM	INER
Kathy Manke		CHIEM,	DINH D	
Avago Technologi		ART UNIT	PAPER NUMBER	
4380 Ziegler Road Fort Collins, CO 8			2883 DATE MAILED: 09/19/200	8

## **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)
	10/810,297	TALLONE ET AL.
Notice of Allowability	Examiner	Art Unit
	ERIN D. CHIEM	2883
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED i s) or other appropriate comm RIGHTS. This application is	n this application. If not included unication will be mailed in due course. <b>THIS</b>
1. $\square$ This communication is responsive to $7/8/08$ .		
2. ☑ The allowed claim(s) is/are <u>1,2 and 8-14</u> .		
<ul> <li>3.  Acknowledgment is made of a claim for foreign priority of a)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have 2.  Certified copies of the priority documents have 3.  Copies of the certified copies of the priority documents have 3.  Copies of the certified copies of the priority documents have 3.  Copies of the certified copies of the priority documents have 3.  Copies of the certified copies of the priority documents have 3.  Note that the certified copies of the priority documents have 3.  Copies of the certified copies of the priority documents have 3.  Copies of the certified copies of the priority documents have 3.  Copies of the certified copies of the priority documents have 3.  Copies of the certified copies of the priority documents have 3.  Copies of the priority documents have 3.  Copies of the certified copies of the priority documents have 3.  Copies of the certified copies of the priority documents have 3.  Copies of the certified copies of the priority documents have 3.  Copies of the certified copies of the priority documents have 3.  Copies of the certified copies of the priority documents have 3.  Copies of the certified copies of the priority documents have 3.  Copies of the certified copies of the priority documents have 3.  Copies of the certified copies of the certified copies of the priority documents have 3.  Copies of the certified copies of the certified copies of the priority documents have 3.  Copies of the certified copies of the certified copies of the priority documents have 3.  Copies of the certified copies of the certifie</li></ul>	ve been received. ve been received in Application	on No
International Bureau (PCT Rule 17.2(a)).	ocuments have been receive	d in this national stage application from the
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	MENT of this application.	
<ol> <li>A SUBSTITUTE OATH OR DECLARATION must be sub- INFORMAL PATENT APPLICATION (PTO-152) which given</li> </ol>		
5. CORRECTED DRAWINGS ( as "replacement sheets") mu	ust be submitted.	
(a) ☐ including changes required by the Notice of Draftspe	rson's Patent Drawing Revie	w ( PTO-948) attached
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date		
<ul><li>(b) ☐ including changes required by the attached Examine Paper No./Mail Date</li></ul>	r's Amendment / Comment o	r in the Office action of
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in		
<ol> <li>DEPOSIT OF and/or INFORMATION about the dep- attached Examiner's comment regarding REQUIREMENT</li> </ol>		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5 Motion of Ir	nformal Patent Application
<ol> <li>Notice of References Cited (FTO-692)</li> <li>Dotice of Draftperson's Patent Drawing Review (PTO-948)</li> </ol>	<u> </u>	tummary (PTO-413),
3. ☐ Information Disclosure Statements (PTO/SB/08),	Paper No.	/Mail Date Amendment/Comment
Paper No./Mail Date  4.  Examiner's Comment Regarding Requirement for Deposit		Statement of Reasons for Allowance
of Biological Material	9. ☐ Other	

# Examiner's Reason(s) for Allowance

Claims 1-2, 8-14 are allowed.

The following is an examiner's statement of reasons for allowance: the amendment to claim 1 overcame the prior art of record. The examiner performed an updated search of the amended limitation "the respective end surfaces of said output optical waveguide and said further optical waveguide are offset with respect to a perpendicular to said input-to-output propagation path, and a propagation path of radiation through said at least one optical component is at an angle with respect to said input-to-output propagation path." The updated search provided prior art that is similar to claimed invention however, they do not anticipate the claimed invention nor reasonably teach the invention in an obvious combination. The prior art of Nakanishi et al. (US 6,374,021 B1) teaches an incline from the laser diode 123 to the photodiode 145. However, the receiving photodiode 145 does arrange in the same planar layer since the light is reflected against the wall 144 and upward to photodiode 145 and the Nakanishi art does not teach an optical component arranged there in between. The prior art of Lee et al. (US 5,854,867) teaches an inclining optical path from input to output with at least one optical element (ball lens 25) arrange in between. However, the receiving diode "end surface" is not in the inclining optical path from input-to-output since the optical signal is reflected off the wall 31 to the end surface of 33. The examiner cannot find a motivation to combine the prior art of Lee, Nakanishi, and the prior art made of record in the prosecution since the prior art of Lee and Nakanishi both deflects the optical signal off of a wall and not an end-to-end surface in the incline input-to-output path. Therefore, claims 2, 8-14 are allowable by virtue of dependency.

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Art Unit: 2883

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ERIN D. CHIEM whose telephone number is (571)272-3102. The examiner can normally be reached on Monday - Thursday 9AM - 5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank G. Font can be reached on (571) 272-2415. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Erin D Chiem/ Examiner, Art Unit 2883 /Frank G Font/ Supervisory Patent Examiner, Art Unit 2883